

ABSTRACT OF THE DISCLOSURE

1 Sequences and partial sequences for three types of mammalian (human and rat
2 sequences identified) T-type calcium channel subunits which we have labeled as the α_{1G} , α_{1H}
3 and α_{1I} subunits are provided. Knowledge of the sequence of these calcium channel permits
4 the localization and recovery of the complete sequence from human cells, and the
5 development of cell lines which express the novel calcium channels of the invention. These
6 cells may be used for identifying compounds capable of acting as agonists or antagonists to
7 the calcium channels.